

SEARCH REQUEST FORM

Requestor's
Name: B. Dent

Serial

Number:

Date: 10/2/55

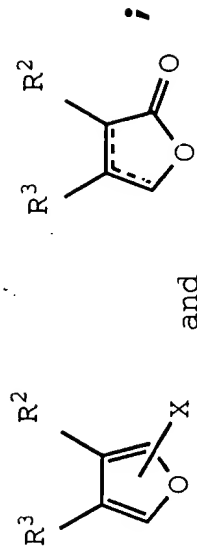
Phone: 308 4544

Art Unit: 1203

Search 7

Please write
that may be
a copy of

-- 35. A compound of a formula selected from



wherein X is H or hydroxyl;

wherein R² is a substituent selected from pyridyl, and aryl optionally substituted at a substitutable position with a radical selected from halo, lower alkyl, lower alkoxy, lower alkylthio, lower alkylsulfinyl, lower alkylsulfonyl, nitro, amino, lower alkylamino, sulfamyl and lower alkylsulfonylamino; and

wherein R³ is a substituent selected from pyridyl, and aryl optionally substituted at a substitutable position with a radical selected from halo, lower alkyl, lower alkoxy, lower alkylthio, lower alkylsulfinyl, lower alkylsulfonyl, nitro, amino, lower alkylamino, amide, lower alkylsulfonylamino and sulfamyl;

provided that at least one of said R² and R³ substituents is substituted with lower alkylsulfonyl or sulfamyl;

any terms
use attach

*structure search
attached*

=> FIL REG

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STRUCTURE FILE UPDATES: 27 OCT 95 HIGHEST RN 169435-71-6
DICTIONARY FILE UPDATES: 29 OCT 95 HIGHEST RN 169435-71-6

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1995

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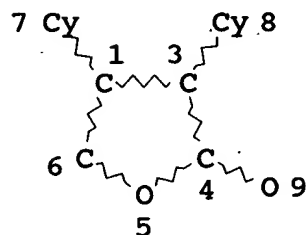
ser. No. 08/425022
applicant Bertenshaw
this is the search for
cpds wherein this
OH

=>

=>

=> D QUE L15

L9 STR



NODE ATTRIBUTES:

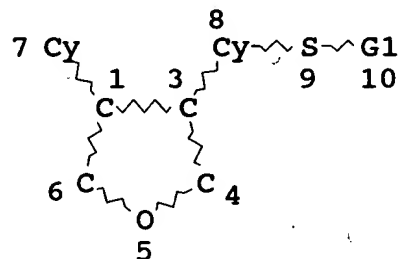
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GGCAT IS UNS AT 7
GGCAT IS UNS AT 8
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L11 SCR 1840 AND 2005 AND 2021 AND 72
L13 STR



VAR G1=C/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 7
GGCAT IS UNS AT 8
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

L15 48 SEA FILE=REGISTRY SSS FUL L9 AND L13 AND L11

=> FIL CAPLUS

FILE 'CAPLUS' ENTERED AT 11:08:31 ON 30 OCT 95
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FILE COVERS 1967 - 30 Oct 1995 VOL 123 ISS 18
FILE LAST UPDATED: 28 Oct 1995 (951028/ED)

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HCAplus file when using the FSEARCH command or when conducting
SmartSELECT searches with large numbers of terms.

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=> S L15

L17 5 L15

=> D BIB ABS HITSTR 1

L17 ANSWER 1 OF 5 CAPLUS COPYRIGHT 1995 ACS

AN 1995:863354 CAPLUS

TI Substituted spiro compounds for the treatment of inflammation

IN Reitz, David B.; Manning, Robert E.; Huang, Horng Chi; Li, Jinglin

PA G.D. Searle and Co., USA

SO U.S., 40 pp.

CODEN: USXXAM

PI US 5393790 A 950228

AI US 94-194762 940210

DT Patent

LA English

AB A class of substituted spiro compds. is described for use in treating inflammation and inflammation-related disorders. Compds. of particular interest are defined by formula I wherein A is selected from II-V and wherein each of R1 through R10 is independently selected from hydrido, halo, alkyl, alkoxy, alkylthio, cyano, haloalkyl, haloalkoxy, hydroxyalkyl, alkoxyalkyl, hydroxyl, mercapto, alkylsulfonyl, haloalkylsulfonyl and sulfamyl; and wherein n is a no. selected from 0, 1, 2 and 3; or a pharmaceutically-acceptable salt thereof. Thus, e.g., 5-(4-fluorophenyl)-6-[(4-methylsulfonyl)phenyl]spiro[2.4]hept-5-ene (VI), prepd. in 86% yield by cyclization of 1-[2-(4-fluorophenyl)-4,4-di(tosyloxymethyl)cyclopenten-1-yl]-4-(methylsulfonyl)benzene (prepn. given) in presence of NaI/Zn, demonstrated 32% inhibition of rat paw edema and 15% inhibition of the hyperalgesic foot withdrawal at 10 mg/kg body wt., and ID50 of <0.1 .mu.M for inhibition of cyclooxygenase II (ID50 = 14 for COX I).

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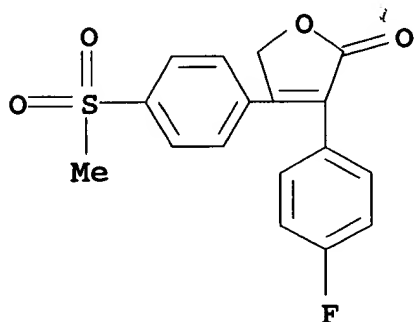
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RN 157672-00-9 CAPLUS

CN 2(5H)-Furanone, 3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-
(9CI) (CA INDEX NAME)

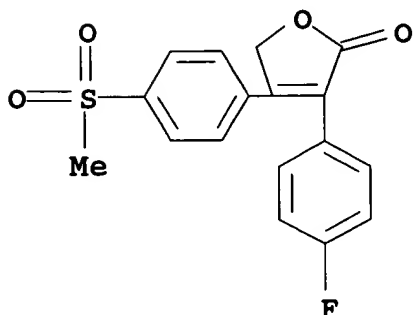
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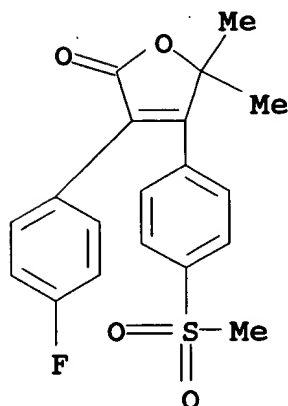
Ducharme
08/179467 US 5474995 12/12/95

L17 ANSWER 2 OF 5 CAPLUS COPYRIGHT 1995 ACS
AN 1995:468615 CAPLUS
TI (Phenyl)heterocyclic compounds as cyclooxygenase inhibitors
IN Ducharme, Yves; Gauthier, Jacques Yves; Prasit, Petpiboon; Leblanc, Yves; Wang, Zhaoyin; Leger, Serge; Therien, Michel
PA Merck Frosst Canada Inc., Can.
SO PCT Int. Appl., 167 pp.
CODEN: PIXXD2
PI WO 9500501 A2 950105
DS W: AU, BB, BG, BR, BY, CA, CN, CZ, FI, GE, HU, JP, KE, KG, KR, KZ, LK, LV, MD, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 94-CA318 940609
PRAI US 93-82196 930624
US 94-179467 940110/
DT Patent
LA English
AB The title compds. I (XYZ form heterocyclic ring; R1 = alkylsulfonyl, aminosulfonyl, etc.; R2 = alkyl, halo, etc.) were disclosed as cyclooxygenase inhibitors (inflammation inhibitors). Example compds. are 2,3-diphenylthiophenes and 3,4-diphenylfuran derivs. Prep'd. example compds. are 2-[4-(4-fluorophenyl)-3-thienyl]benzenesulfonamide (II) and 3-(3,4-dichlorophenyl)-4-[4-(methylsulfonyl)phenyl]dihydro-2(3H)-furanone (III).
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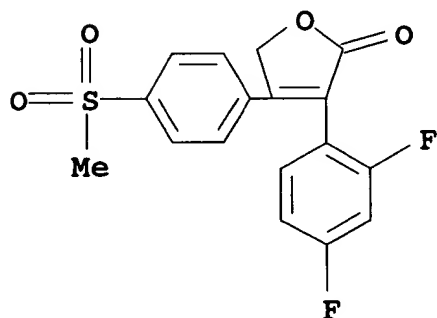
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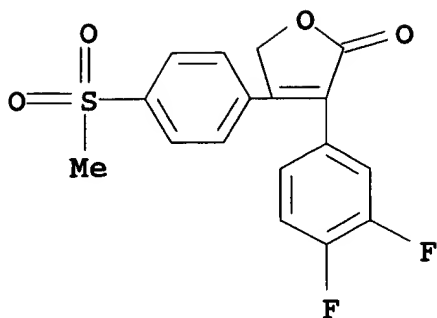
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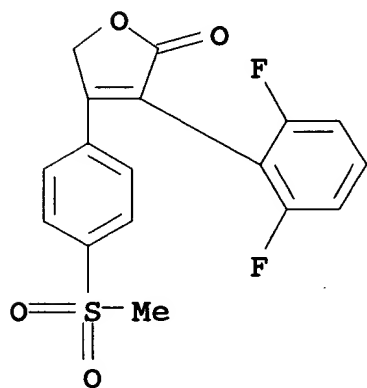


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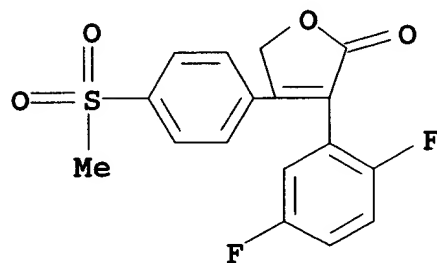
RN 162011-84-9 CAPLUS

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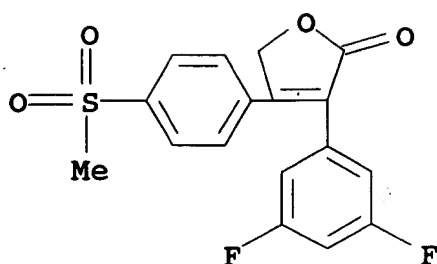
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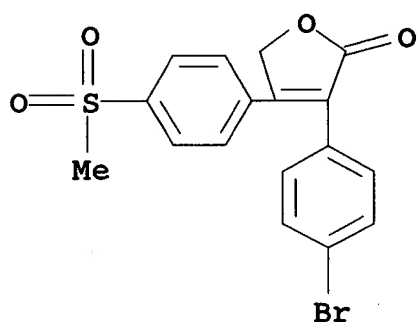


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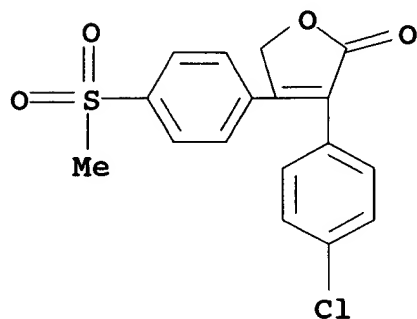
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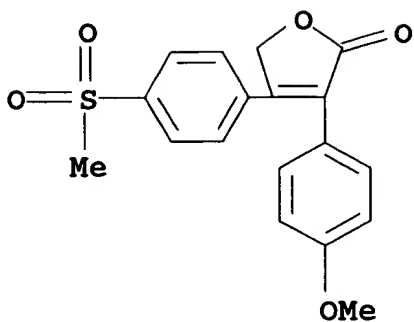
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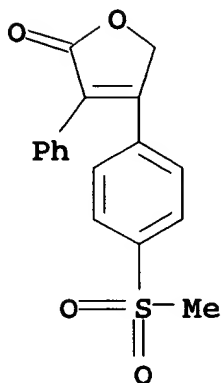
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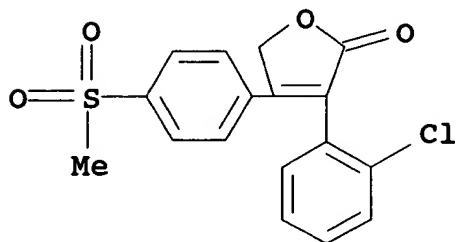
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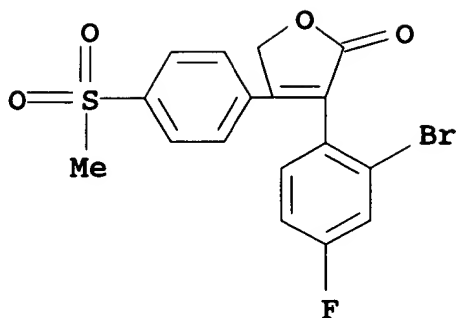
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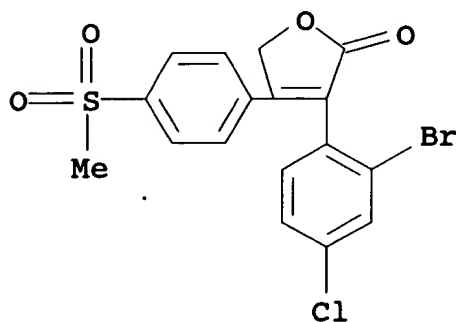
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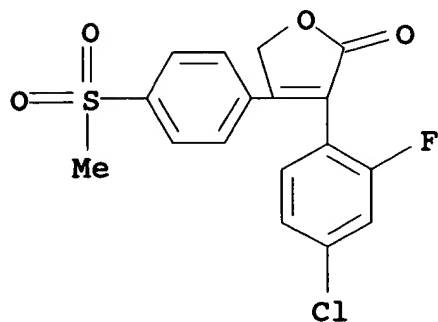
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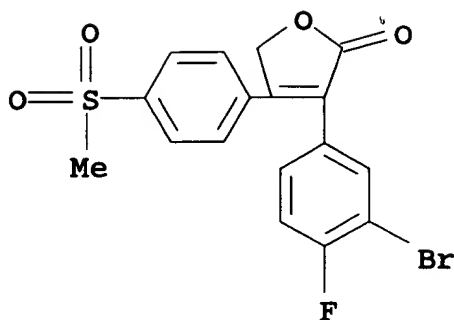
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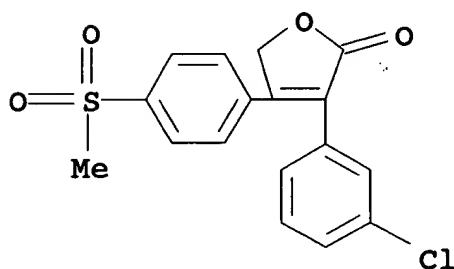
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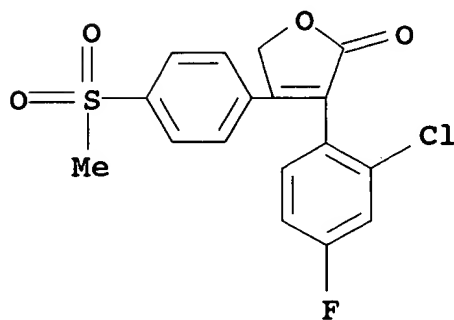
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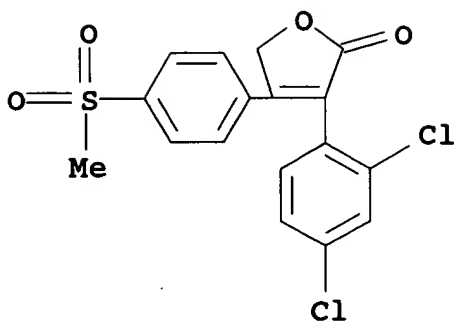
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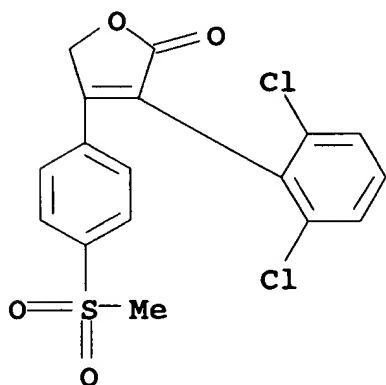
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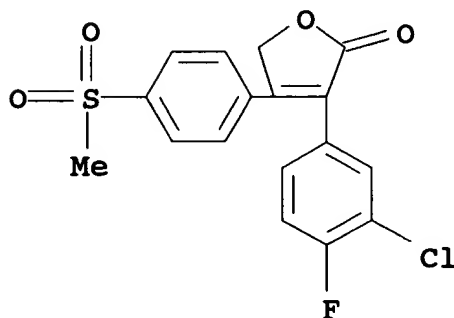
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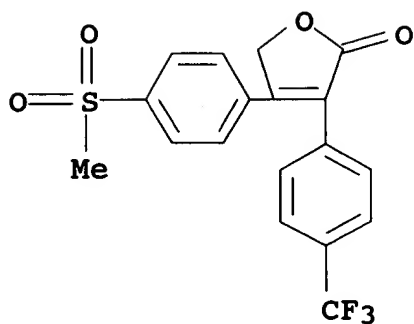
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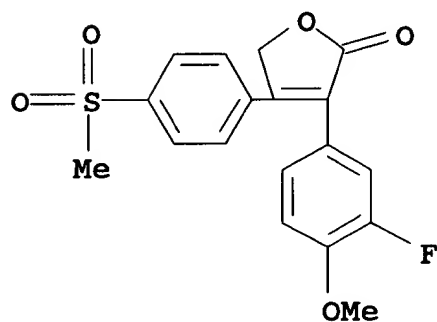
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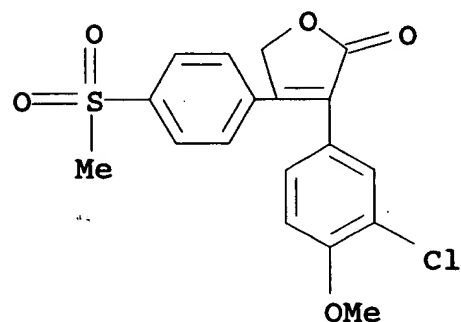
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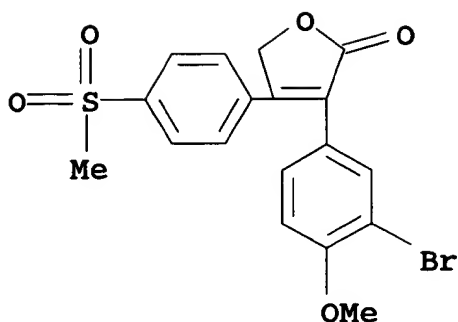
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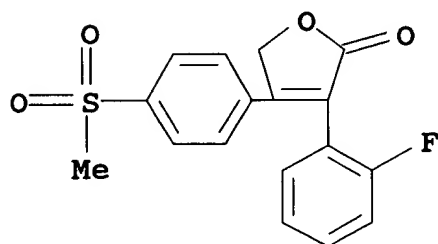
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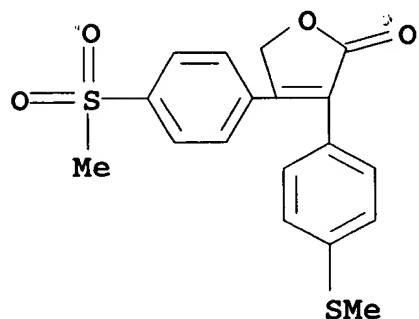
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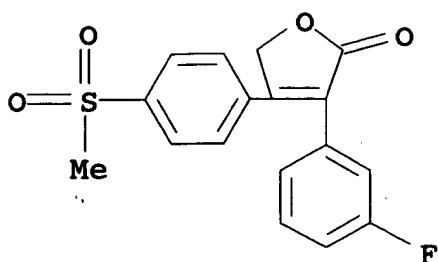
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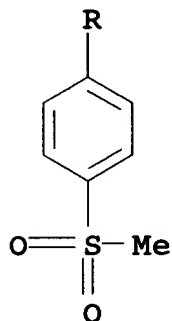
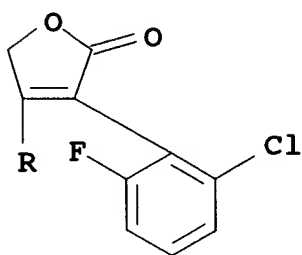
RN 162012-06-8 CAPLUS
CN 2(5H)-Furanone, 4-[4-(methylsulfonyl)phenyl]-3-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



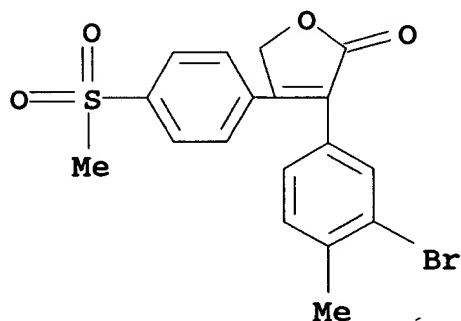
RN 162012-07-9 CAPLUS
CN 2(5H)-Furanone, 3-(3-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-
(9CI) (CA INDEX NAME)



RN 162012-08-0 CAPLUS
CN 2(5H)-Furanone, 3-(2-chloro-6-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

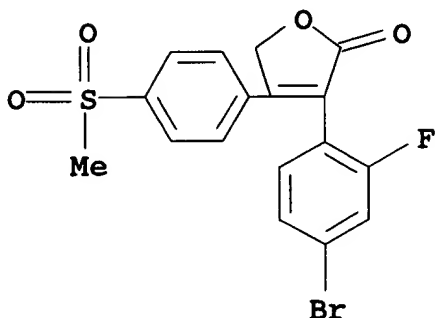


RN 162012-09-1 CAPLUS
CN 2(5H)-Furanone, 3-(3-bromo-4-methylphenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



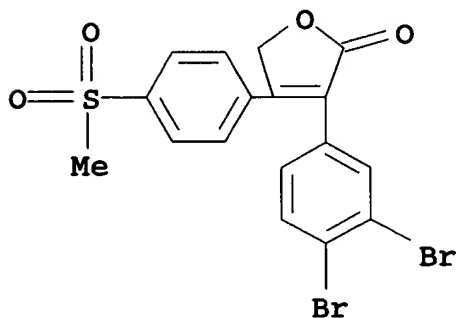
RN 162012-10-4 CAPLUS

CN 2(5H)-Furanone, 3-(4-bromo-2-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



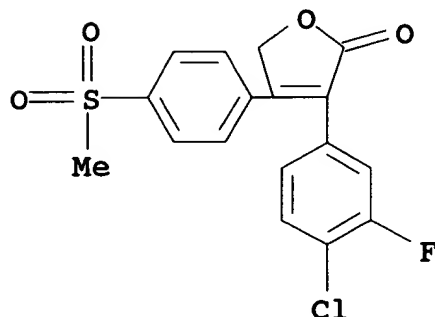
RN 162012-11-5 CAPLUS

CN 2(5H)-Furanone, 3-(3,4-dibromophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



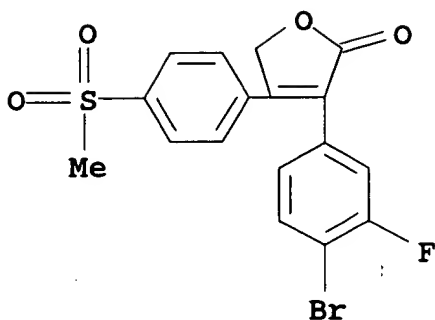
RN 162012-12-6 CAPLUS

CN 2(5H)-Furanone, 3-(4-chloro-3-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)

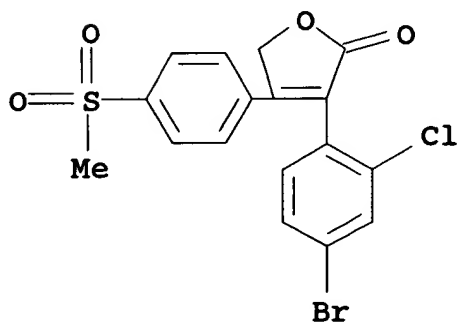


RN 162012-13-7 CAPLUS

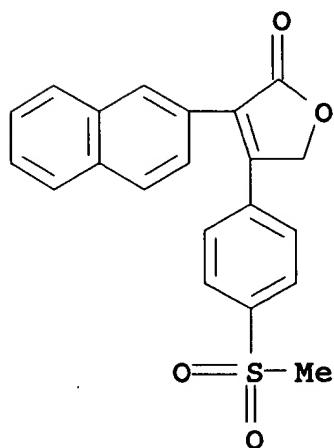
CN 2(5H)-Furanone, 3-(4-bromo-3-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



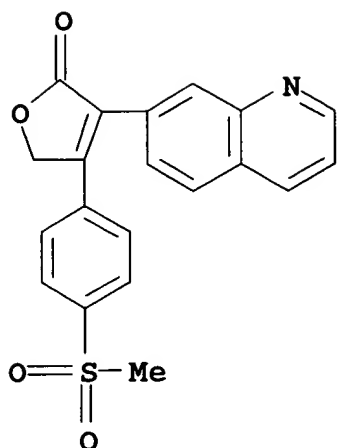
RN 162012-14-8 CAPLUS
 CN 2(5H)-Furanone, 3-(4-bromo-2-chlorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



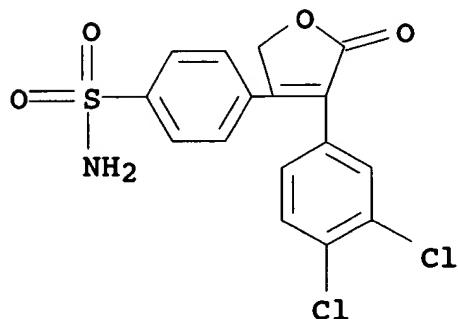
RN 162012-15-9 CAPLUS
 CN 2(5H)-Furanone, 4-[4-(methylsulfonyl)phenyl]-3-(2-naphthalenyl)- (9CI) (CA INDEX NAME)



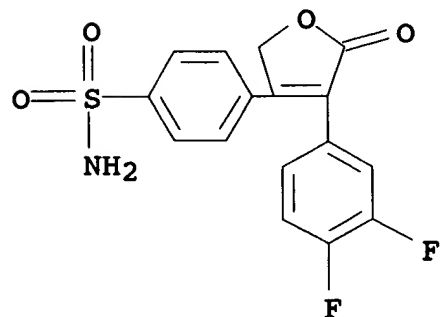
RN 162012-16-0 CAPLUS
 CN 2(5H)-Furanone, 4-[4-(methylsulfonyl)phenyl]-3-(7-quinolinyl)- (9CI) (CA INDEX NAME)



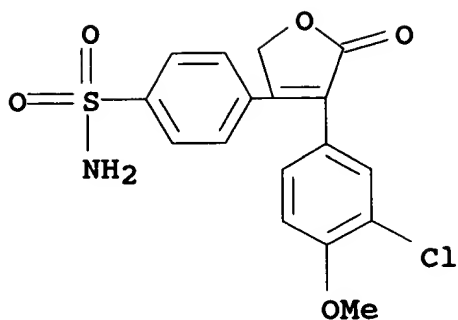
RN 162012-17-1 CAPLUS
 CN Benzenesulfonamide, 4-[4-(3,4-dichlorophenyl)-2,5-dihydro-5-oxo-3-furanyl]- (9CI) (CA INDEX NAME)



RN 162012-18-2 CAPLUS
 CN Benzenesulfonamide, 4-[4-(3,4-difluorophenyl)-2,5-dihydro-5-oxo-3-furanyl]- (9CI) (CA INDEX NAME)

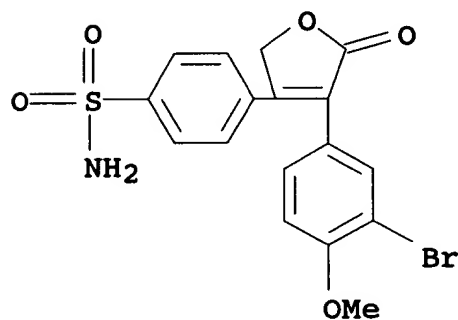


RN 162012-19-3 CAPLUS
 CN Benzenesulfonamide, 4-[4-(3-chloro-4-methoxyphenyl)-2,5-dihydro-5-oxo-3-furanyl]- (9CI) (CA INDEX NAME)



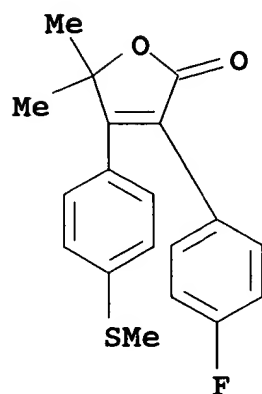
RN 162012-20-6 CAPLUS

CN Benzenesulfonamide, 4-[4-(3-bromo-4-methoxyphenyl)-2,5-dihydro-5-oxo-3-furanyl]- (9CI) (CA INDEX NAME)



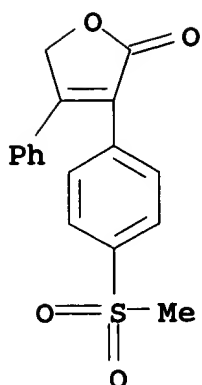
RN 162012-23-9 CAPLUS

CN 2(5H)-Furanone, 3-(4-fluorophenyl)-5,5-dimethyl-4-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

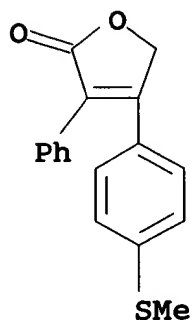


RN 162012-25-1 CAPLUS

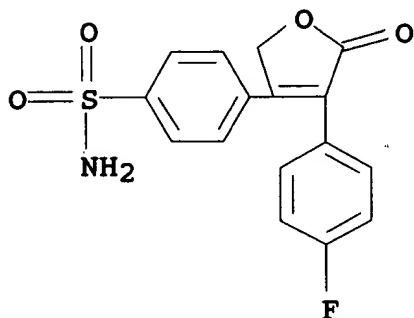
CN 2(5H)-Furanone, 3-[4-(methylsulfonyl)phenyl]-4-phenyl- (9CI) (CA INDEX NAME)



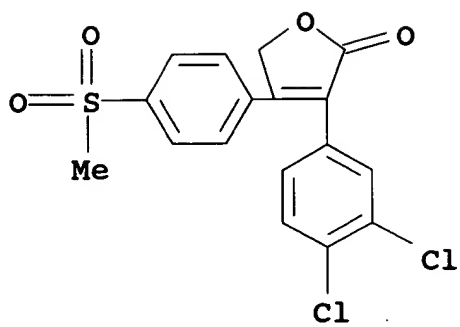
RN 162012-30-8 CAPLUS
CN 2(5H)-Furanone, 4-[4-(methylthio)phenyl]-3-phenyl- (9CI) (CA INDEX NAME)



RN 162012-33-1 CAPLUS
CN Benzenesulfonamide, 4-[4-(4-fluorophenyl)-2,5-dihydro-5-oxo-3-furanyl]- (9CI) (CA INDEX NAME)

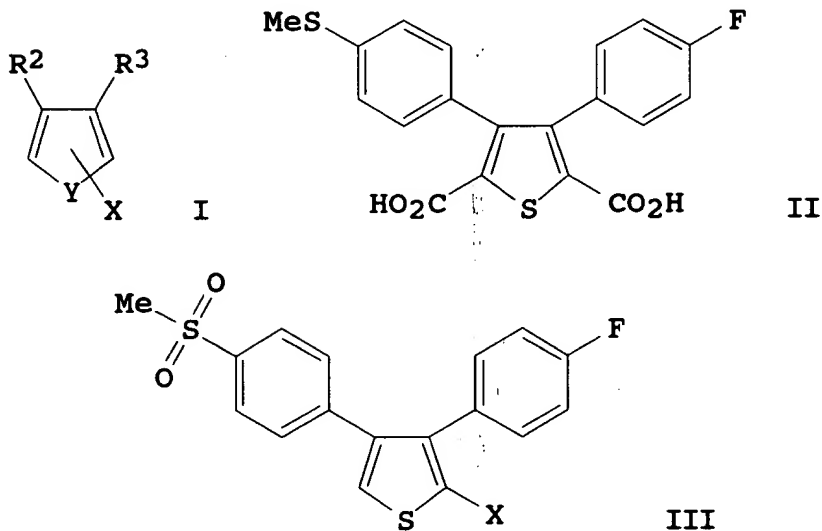


RN 162012-35-3 CAPLUS
CN 2(5H)-Furanone, 3-(3,4-dichlorophenyl)-4-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



=> D BIB ABS HITSTR 3

L17 ANSWER 3 OF 5 CAPLUS COPYRIGHT 1995 ACS
 AN 1994:579484 CAPLUS
 DN 121:179484
 TI Novel 3,4-diaryl thiophenes and analogs thereof having use as
 antiinflammatory agents
 IN Bertenshaw, Stephen R.; Collins, Paul W.; Penning, Thomas D.; Reitz,
 David B.; Rogers, Roland S.
 PA Searle, G. D., and Co., USA
 SO PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 PI WO 9415932 A1 940721
 DS W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU,
 JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO,
 RU, SD, SE, SK, UA, US, UZ, VN
 RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR,
 IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
 AI WO 94-US466 940114
 PRAI US 93-4822 930115
 DT Patent
 LA English
 OS MARPAT 121:179484
 GI



AB A class of 3,4-diaryl-substituted thiophene, furan, and pyrrole
 derivs. is disclosed, as well as pharmaceutical compns. contg. them,
 and methods of using them to treat inflammation and related
 disorders. Compds. of particular interest are I [Y = S, O, NR₁; R₁
 = H, lower alkyl; X = 1 or 2 substituents selected from a large
 group, esp. H, halo, lower alkoxy, carbonyl, CO₂H; R₂, R₃ =
 (independently) aryl or heteroaryl, optionally substituted with 1 or
 more radicals such as sulfamyl, alkylsulfonyl, halo, lower alkoxy
 and lower alkyl] and pharmaceutically acceptable salts thereof. For
 example, S(CH₂CO₂Me)₂ was cyclized with 4-FC₆H₄COCOC₆H₄(SMe)-4 in

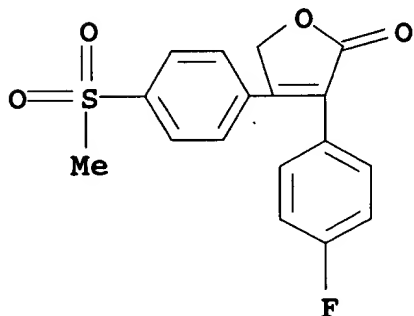
THF-MeOH contg. NaOMe at 65.degree. to give 82% of a mixt. of regioisomeric thiophenedicarboxylic acid monoesters, which were sapond. by NaOH in aq. THF-MeOH to give diacid II. Double decarboxylation of II with Cu in quinoline at 180-200.degree. (89%) and S-oxidn. with MCPBA gave title compd. III (X = H), which was brominated by Br₂ in AcOH to give III (X = Br) plus the corresponding 2,5-dibromo compd. III (X = Br) at 10 mg/kg orally gave 30% inhibition in the carrageenan-induced rat-paw edema test. Data include 15 synthetic examples, rat-paw edema and analgesia tests, and in vitro tests for cyclooxygenase (I and II) and TXB₂ activity.

IT 157672-00-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, in prepn. of diarylthiophenes and analogs as antiinflammatory agents)

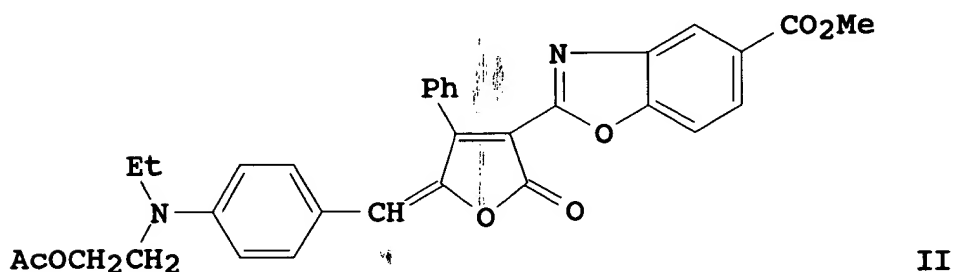
RN 157672-00-9 CAPLUS

CN 2(5H)-Furanone, 3-(4-fluorophenyl)-4-[4-(methylsulfonyl)phenyl]-
(9CI) (CA INDEX NAME)



=> D BIB ABS HITSTR 4

L17 ANSWER 4 OF 5 CAPLUS COPYRIGHT 1995 ACS
AN 1994:273062 CAPLUS
DN 120:273062
TI Polyesters having copolymerized therein a light-absorbing compound,
and compositions thereof
IN Weaver, Max A.; Krutak, James J.; Coates, Clarence A., Jr.; Parham,
William W.; Pruett, Wayne P.; Hilbert, Samuel D.
PA Eastman Kodak Co., USA
SO U.S., 45 pp.
CODEN: USXXAM
PI US 5274072 A 931228
AI US 92-878273 920504
DT Patent
LA English
GI



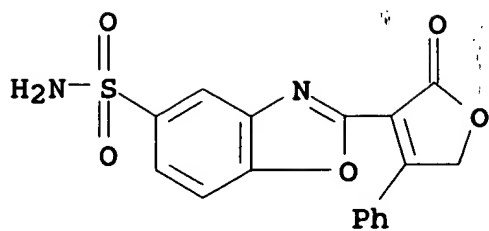
AB Substituted 2(5H)-furanones contg. a heteroaryl group in the
3-position and their derivs., useful as UV/visible light-absorbing
comps., thermally stable with low volatility, were prepd. and
copolymd. in high-temp. polyester prepns. or blended with polymers.
Me 3-amino-4-hydroxybenzoate was cyclocondensed with
EtO2CCH2C(OEt):NH.HCl to give Et (5-carbomethoxy-2-
benzoxazolyl)acetate, which was cyclocondensed with PhCOCH2OAc to
give 3-(5-carbomethoxy-2-benzoxazolyl)-4-phenyl-2(5H)-furanone (I).
Condensation of I with 4-AcOCH2CH2NEtC6H4CHO gave II, λ_{max}
520 nm. Copolymn. of II 1.34 with 1,4-butanediol 81.0 and di-Me
terephthalate 116.18 g gave a red polyester with wt.-av. mol. wt.
17,356 and polydispersity 1.40.

IT 154438-00-3P

(prepn. of)

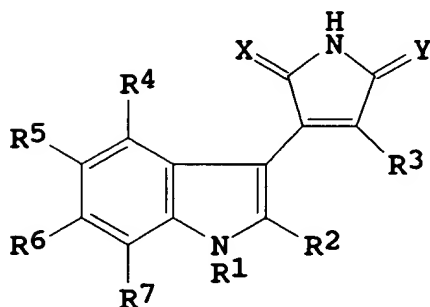
RN 154438-00-3 CAPLUS

CN 5-Benzoxazolesulfonamide, 2-(2,5-dihydro-2-oxo-4-phenyl-3-furanyl)-
(9CI) (CA INDEX NAME)

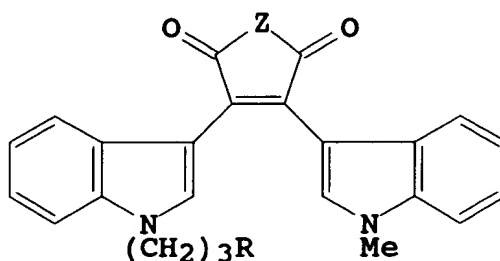


=> D BIB ABS HITSTR 5

L17 ANSWER 5 OF 5 CAPLUS COPYRIGHT 1995 ACS
 AN 1990:98378 CAPLUS
 DN 112:98378
 TI Preparation of 3-(3-indolyl)pyrrole-2,5-diones and analogs as
 protein kinase inhibitors
 IN Davis, Peter David; Hill, Christopher Huw; Lawton, Geoffrey
 PA Hoffmann-La Roche, F., und Co. A.-G., Switz.
 SO Eur. Pat. Appl., 38 pp.
 CODEN: EPXXDW
 PI EP 328026 A1 890816
 DS R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE
 AI EP 89-102025 890206
 PRAI GB 88-3048 880210
 GB 88-27565 881125
 DT Patent
 LA German
 GI



I



II

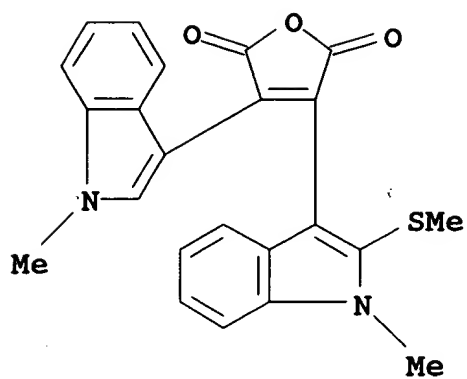
AB The title compds. (I; R1, R2 = H, alkyl, aryl, etc.; R3 = aryl, heteroaryl; R4-R7 = H, halo, alkyl, alkoxy, etc.; 1 of X, Y = O and the other = O, S, H and OH, H and H) were prepd. Thus, 1-(3-bromopropyl)indole (prepn. given) was stirred 2 h with (COCl)₂ in CH₂Cl₂ and the product stirred 3 h with 1-methyl-3-indolylacetic acid in CH₂Cl₂ contg. (Me₂CH)₂NEt to give bis(indolyl)furandione II (R = Br, Z = O) which was converted in 3 steps to II (R = NH₂, Z = NH). The latter was stirred 16 h with 1,1'-thiocarbonyldiimidazole in THF to give II (R = NCS, Z = NH) which had IC₅₀ of 0.008 .mu.M for inhibition of protein kinase C in vitro.

IT 125314-93-4P

(prepn. and reaction of, in prepn. of protein kinase inhibitors)

RN 125314-93-4 CAPLUS

CN 2,5-Furandione, 3-(1-methyl-1H-indol-3-yl)-4-[1-methyl-2-(methylthio)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)



FILE 'CAOLD' ENTERED AT 11:09:35 ON 30 OCT 95
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FILE 'BIOSIS' ENTERED AT 11:09:35 ON 30 OCT 95
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DEL HIS Y
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L1 STR

FILE 'REGISTRY' ENTERED AT 10:48:47 ON 30 OCT 95

L2 0 S L1

E NC5/ESS(S)OC4/ESS(S)C6/ESS

L3 2 S L1 FUL

FILE 'REGISTRY' ENTERED AT 10:53:31 ON 30 OCT 95

FILE 'CAPLUS' ENTERED AT 10:53:38 ON 30 OCT 95

L4 1 S L3

FILE 'CAOLD, MEDLINE, BIOSIS' ENTERED AT 10:54:38 ON 30 OCT 95

L5 0 FILE CAOLD

L6 0 FILE MEDLINE

L7 0 FILE BIOSIS

TOTAL FOR ALL FILES

L8 0 S L3

FILE 'HOME' ENTERED AT 10:54:57 ON 30 OCT 95

FILE 'HOME' ENTERED AT 10:55:35 ON 30 OCT 95

FILE 'REGISTRY' ENTERED AT 11:00:13 ON 30 OCT 95

L9 STR

L10 0 S L9

L11 SCR 1840 AND 2005 AND 2021 AND 72

L12 7 S L9 AND L11

L13 STR L9

L14 5 S L9 AND L13 AND L11

L15 48 S L9 AND L13 AND L11 FUL

FILE 'CAPLUS' ENTERED AT 11:08:09 ON 30 OCT 95

L16 5 S L15

FILE 'REGISTRY' ENTERED AT 11:08:24 ON 30 OCT 95

FILE 'CAPLUS' ENTERED AT 11:08:31 ON 30 OCT 95

L17 5 S L15

FILE 'CAOLD, MEDLINE, BIOSIS' ENTERED AT 11:09:35 ON 30 OCT 95

L18 0 FILE CAOLD

L19 0 FILE MEDLINE

L20 0 FILE BIOSIS

TOTAL FOR ALL FILES

L21 0 S L15

FILE 'USPATFULL' ENTERED AT 11:12:09 ON 30 OCT 95

L22 2 S L15

FILE 'HCAPLUS' ENTERED AT 11:12:28 ON 30 OCT 95

L23 5 S L15

SELECT PRN L23 1-5

SELECT PN L23 1-5

FILE 'USPATFULL' ENTERED AT 11:12:57 ON 30 OCT 95

L24 0 S L22 NOT E1-10

=> FIL HOM

FILE 'HOME' ENTERED AT 11:13:56 ON 30 OCT 95